

FIG. 1A

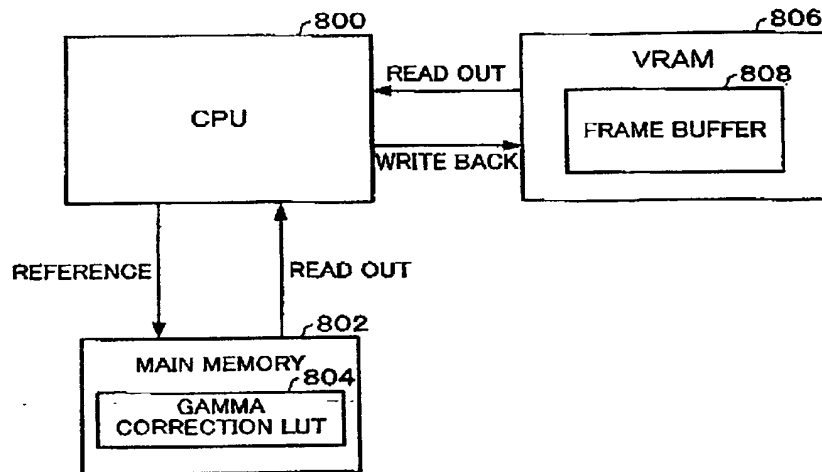


FIG. 1B

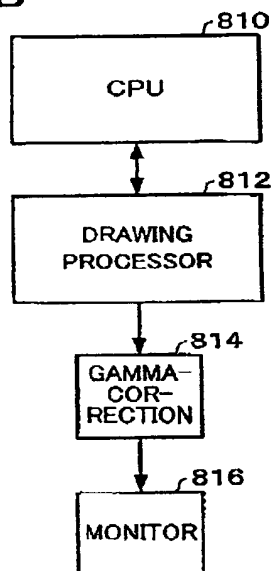


FIG. 2

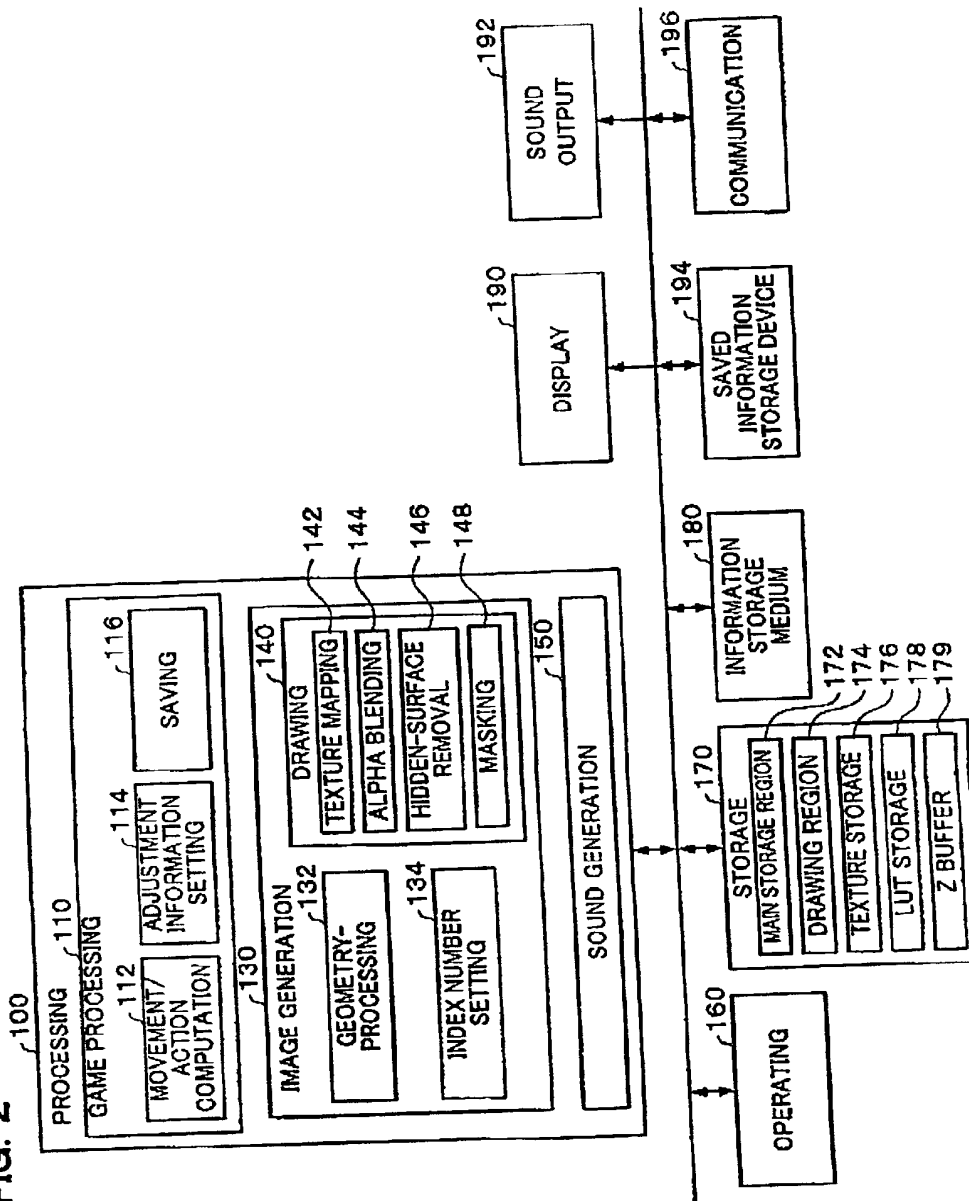


FIG. 3

INDEX COLOR TEXTURE-MAPPING

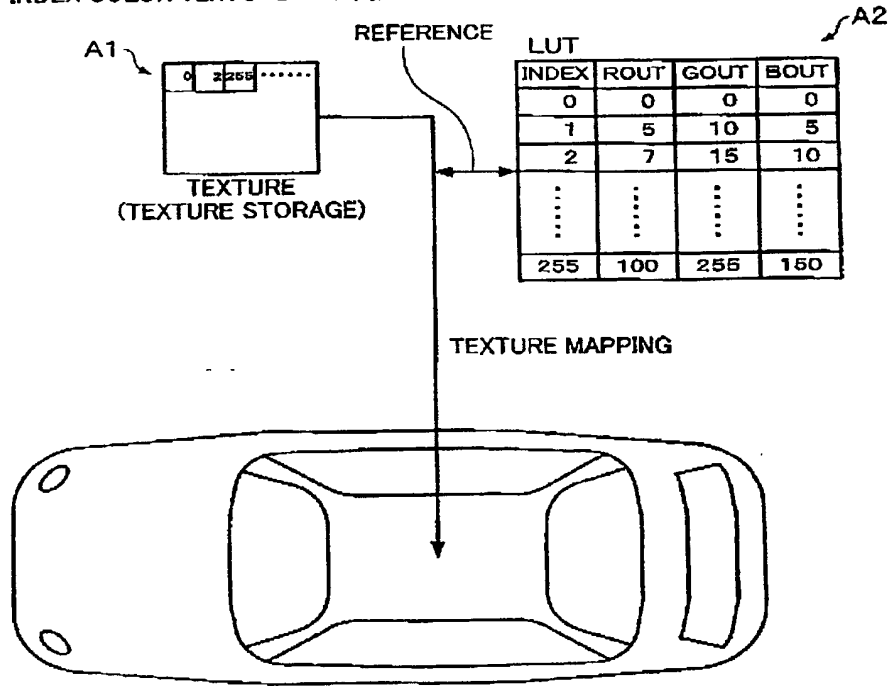


FIG. 4

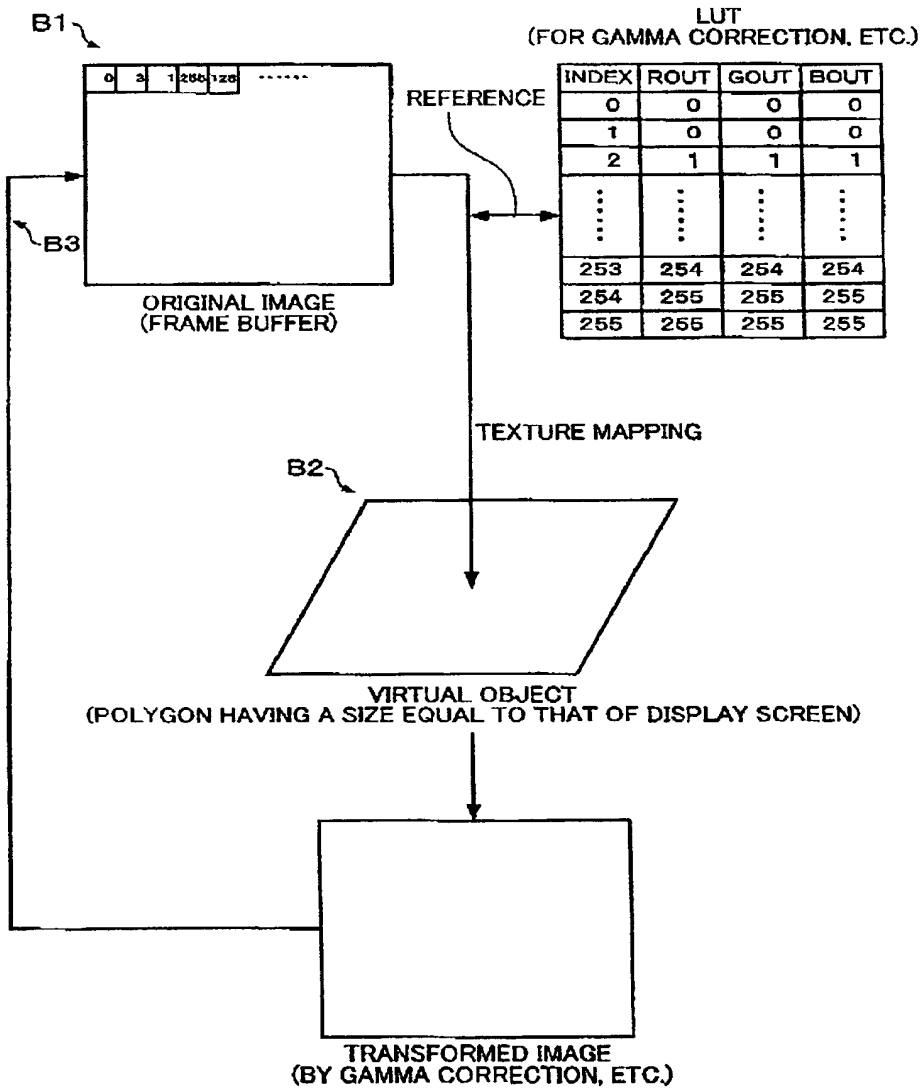


FIG. 4

FIG. 5A

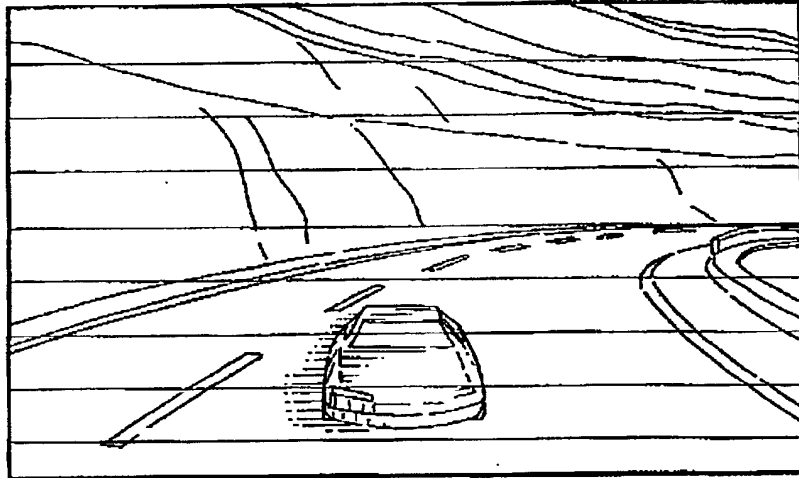
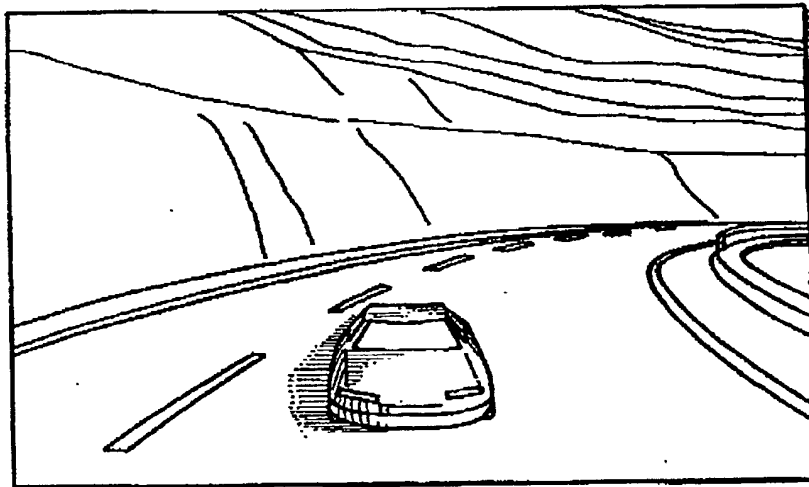


FIG. 5B



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FIG. 6

FIG. 6

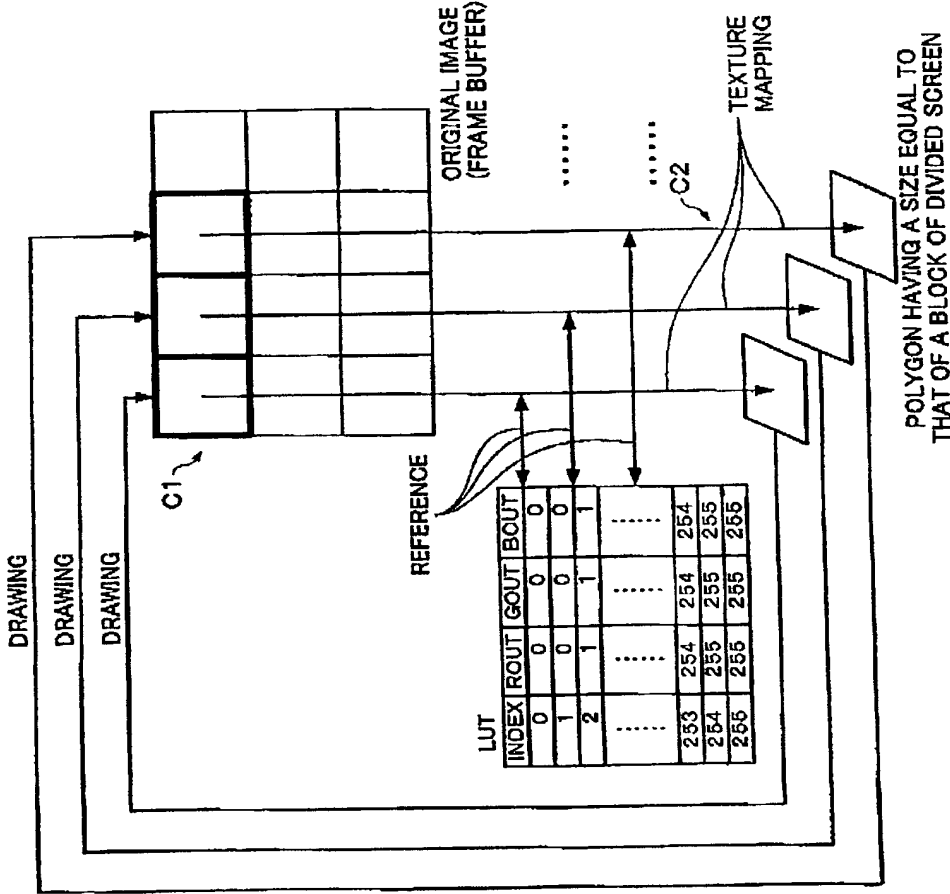


FIG. 7A

GAMMA CORRECTION

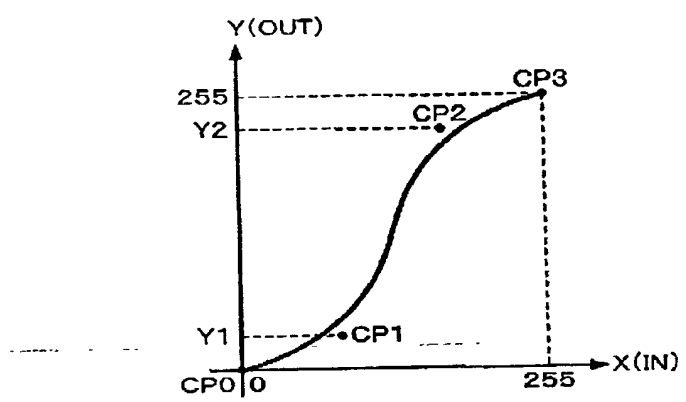


FIG. 7B

LUT FOR GAMMA CORRECTION

INDEX	ROUT	GOUT	BOUT
0	0	0	0
1	0	0	0
2	1	1	1
3	1	1	1
4	2	2	2
5	3	3	3
⋮	⋮	⋮	⋮
250	252	252	252
251	253	253	253
252	254	254	254
253	254	254	254
254	255	255	255
255	255	255	255

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FIG. 8A

NEGATIVE/POSITIVE INVERSION

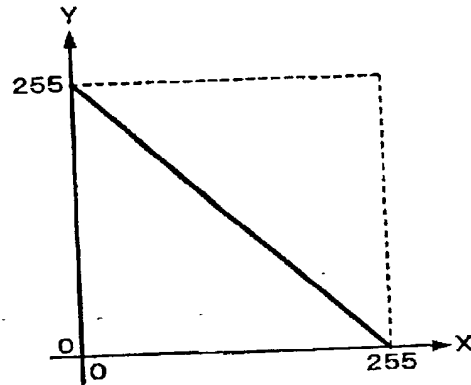


FIG. 8B

LUT FOR NEGATIVE/POSITIVE INVERSION

INDEX	ROUT	GOUT	BOUT
0	255	255	255
1	254	254	254
2	253	253	253
3	252	252	252
⋮	⋮	⋮	⋮
253	2	2	2
254	1	1	1
255	0	0	0

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FIG. 9A

POSTERIZATION

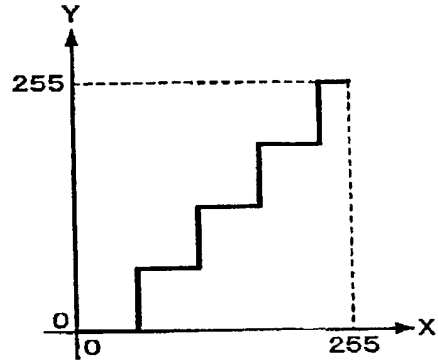


FIG. 9B

SOLARIZATION

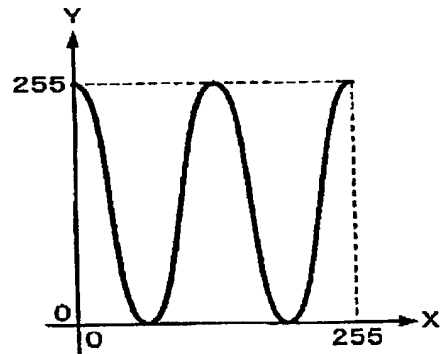


FIG. 9C

BINARIZATION

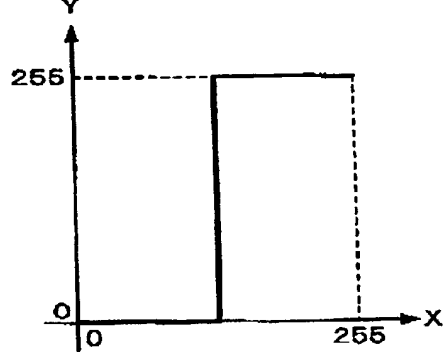


FIG. 10A

LUTR FOR MONOTONE FILTERING

INDEX	ROUTR	GOUTR	BOUTR
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	1	1	1
5	1	1	1
⋮	⋮	⋮	⋮
250	74	74	74
251	75	75	75
252	75	75	75
253	75	75	75
254	75	75	75
255	76	76	76

FIG. 10B

LUTG FOR MONOTONE FILTERING

INDEX	ROUTG	GOUTG	BOUTG
0	0	0	0
1	0	0	0
2	1	1	1
3	1	1	1
4	2	2	2
5	2	2	2
⋮	⋮	⋮	⋮
250	146	146	146
251	147	147	147
252	147	147	147
253	148	148	148
254	148	148	148
255	149	149	149

FIG. 11

LUTB FOR MONOTONE FILTERING

INDEX	ROUTB	GOUTB	BOUtb
0	0	0	0
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
⋮	⋮	⋮	⋮
250	28	28	28
251	28	28	28
252	28	28	28
253	28	28	28
254	29	29	29
255	29	29	29

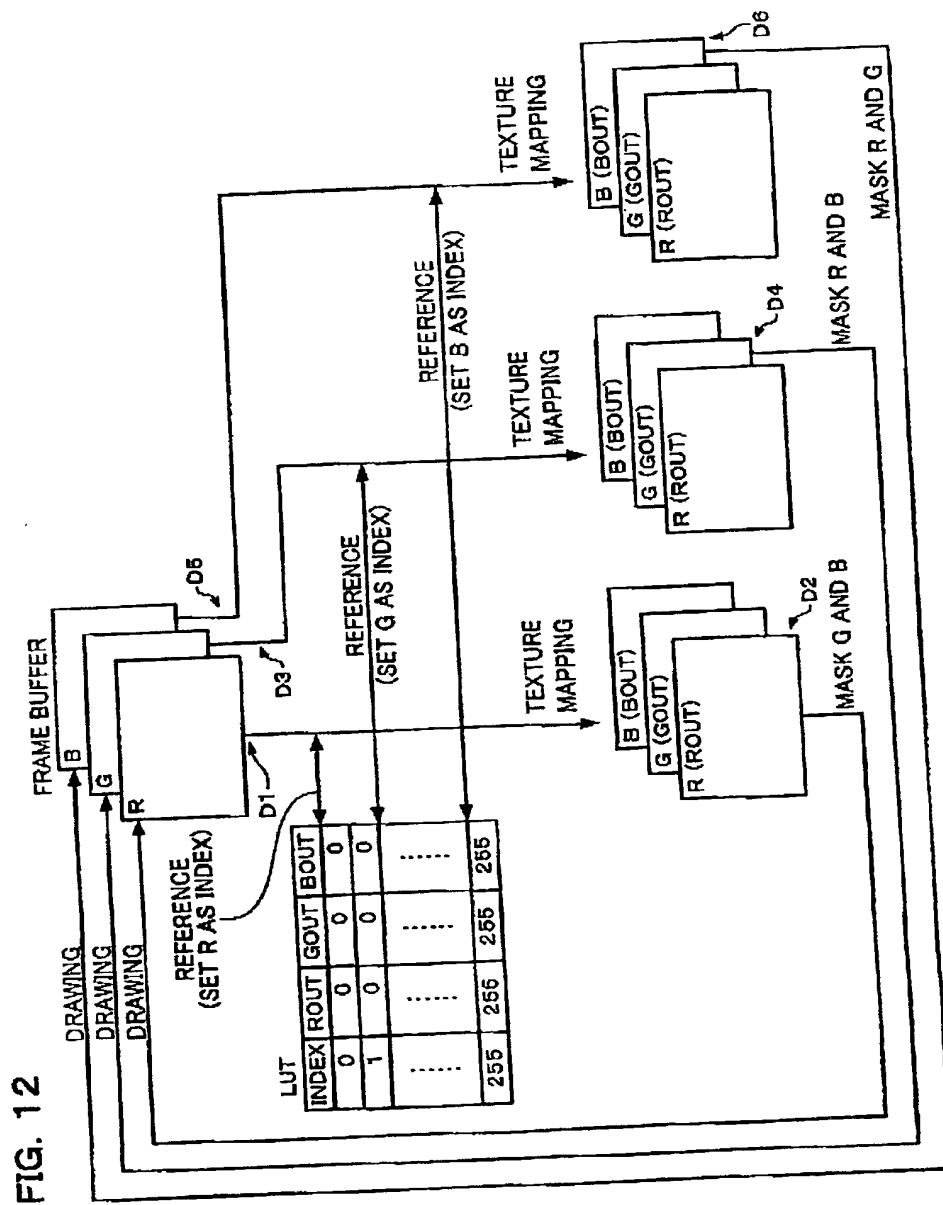


FIG. 13

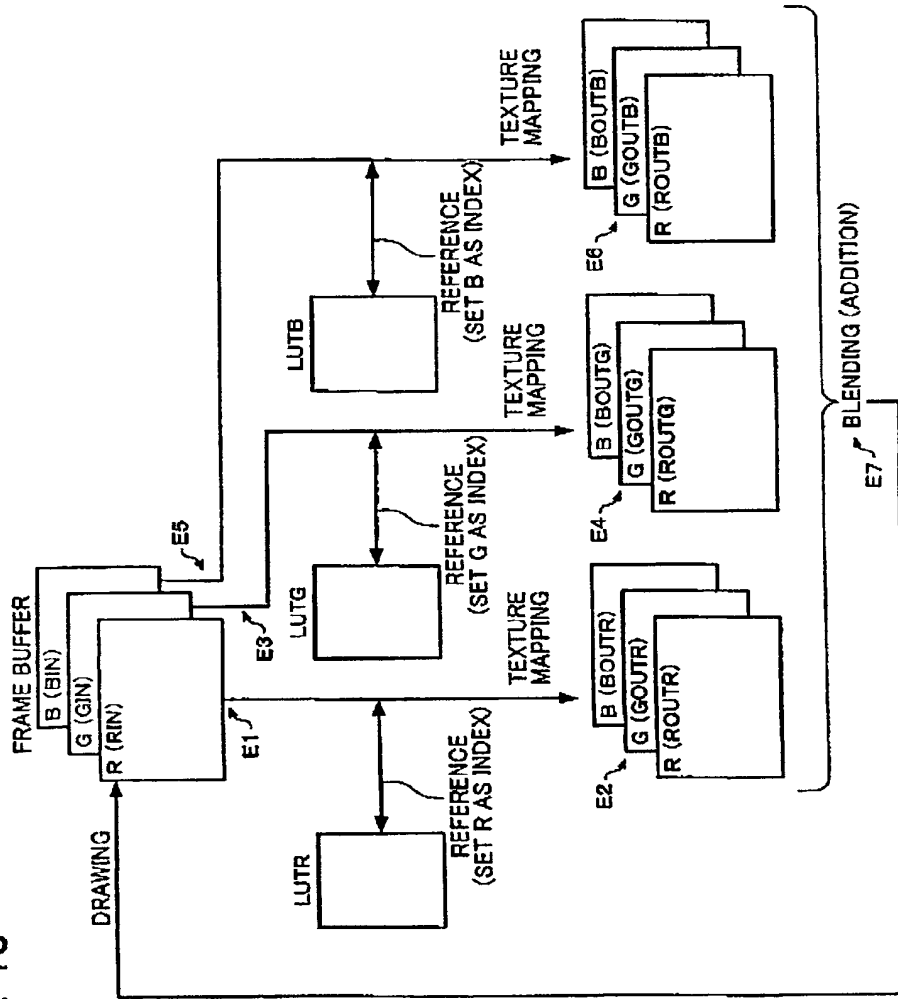
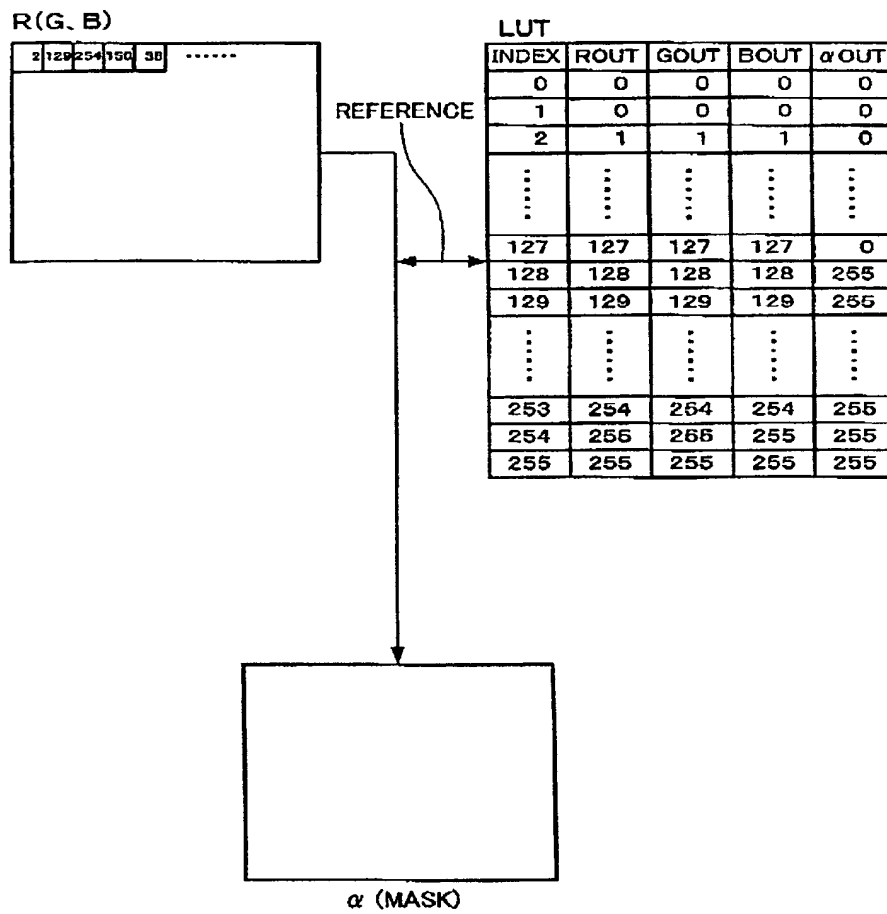


FIG. 13

FIG. 14



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FIG. 15

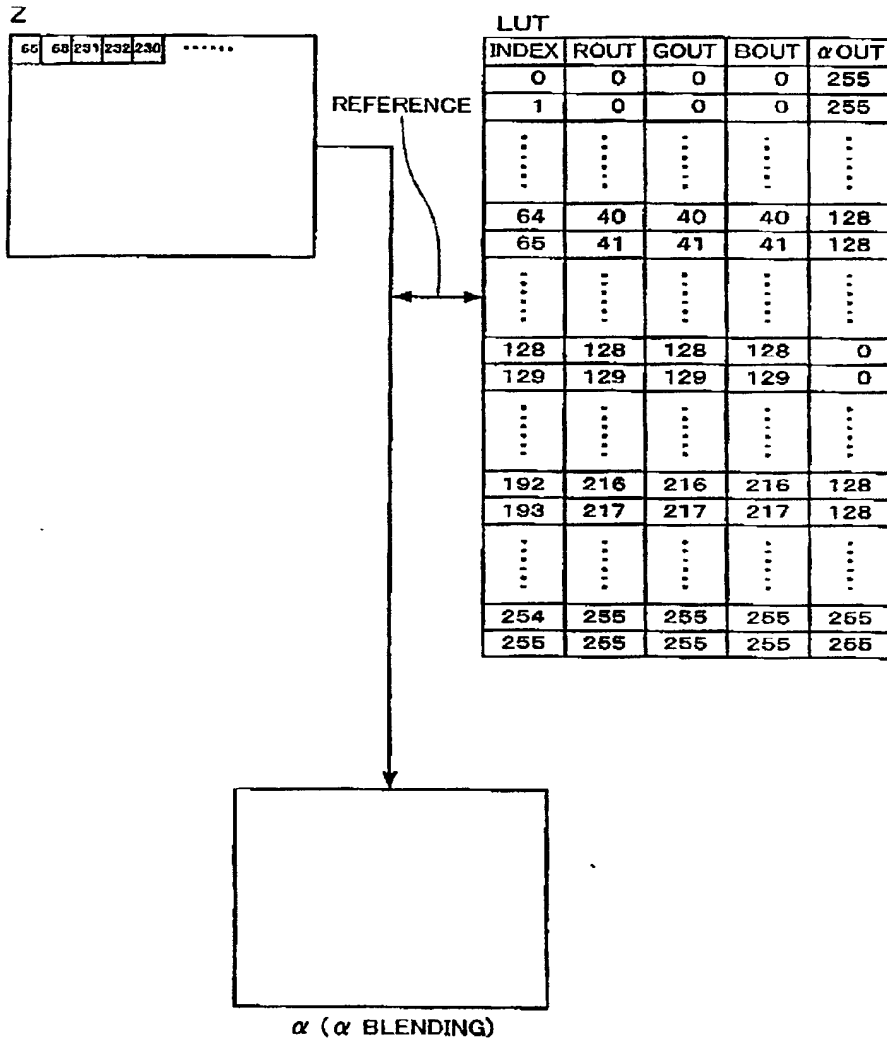
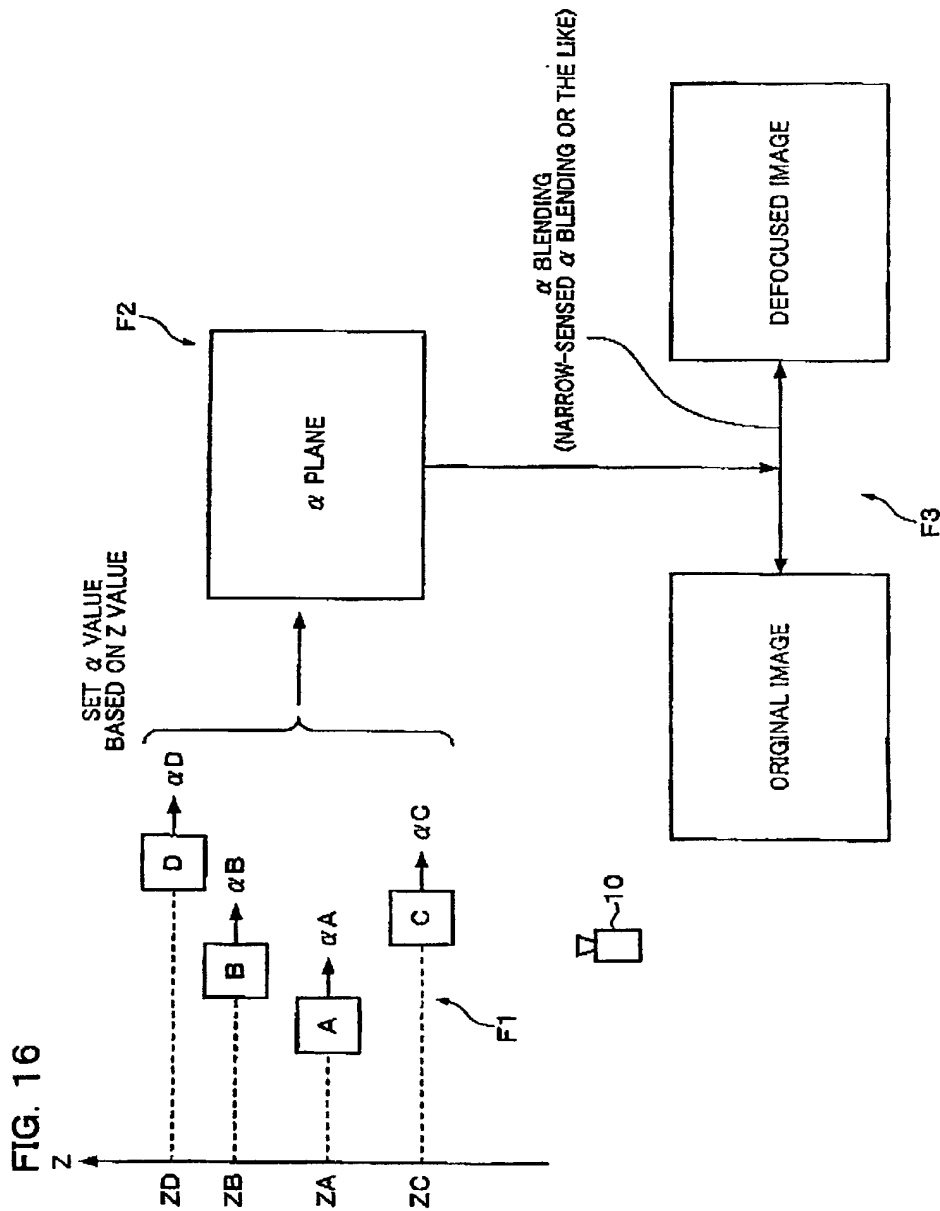


FIG. 15



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FIG. 17A ORIGINAL IMAGE

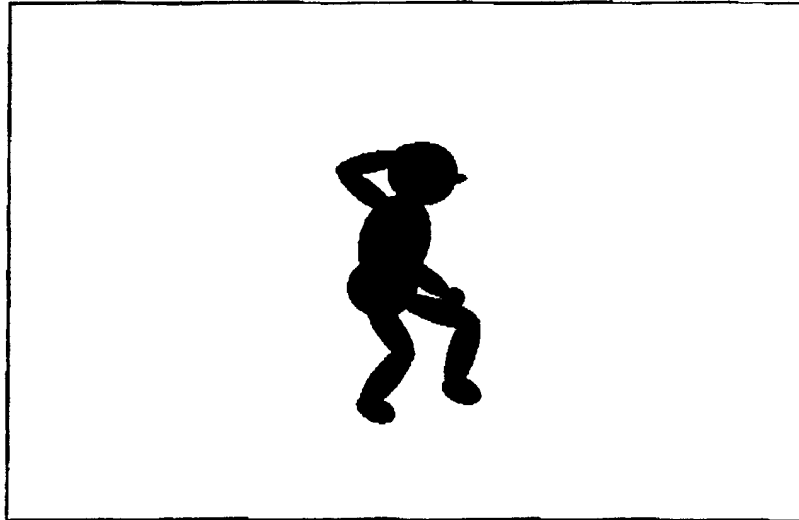
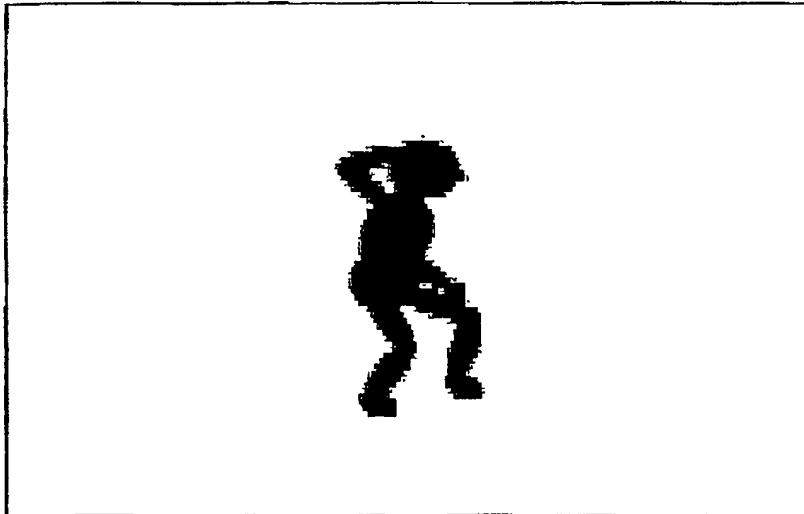


FIG. 17B DEFOCUSED IMAGE



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FIG. 18

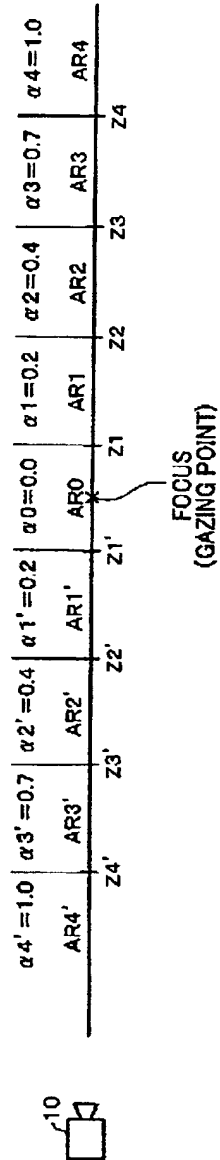


FIG. 19A

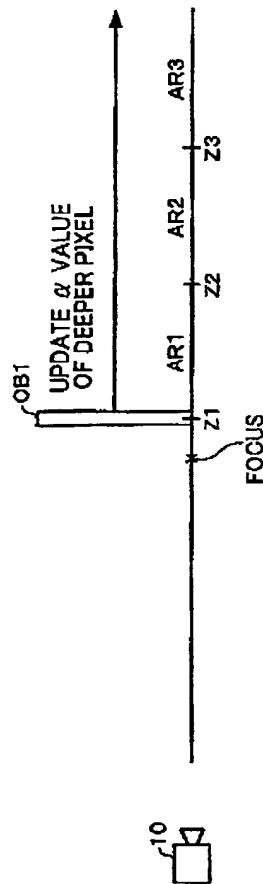


FIG. 19B

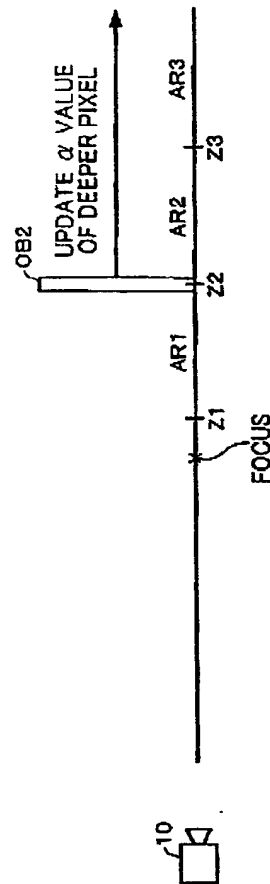


FIG. 19C

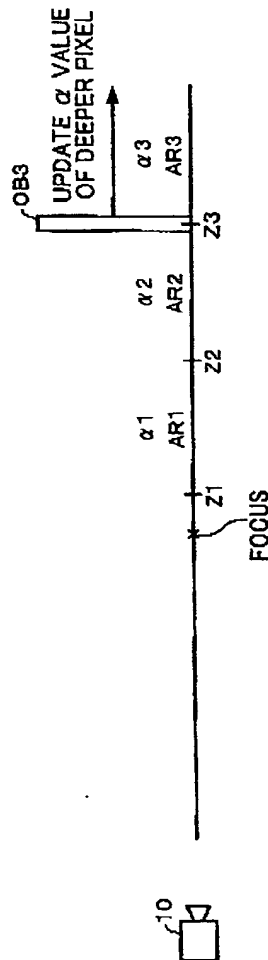
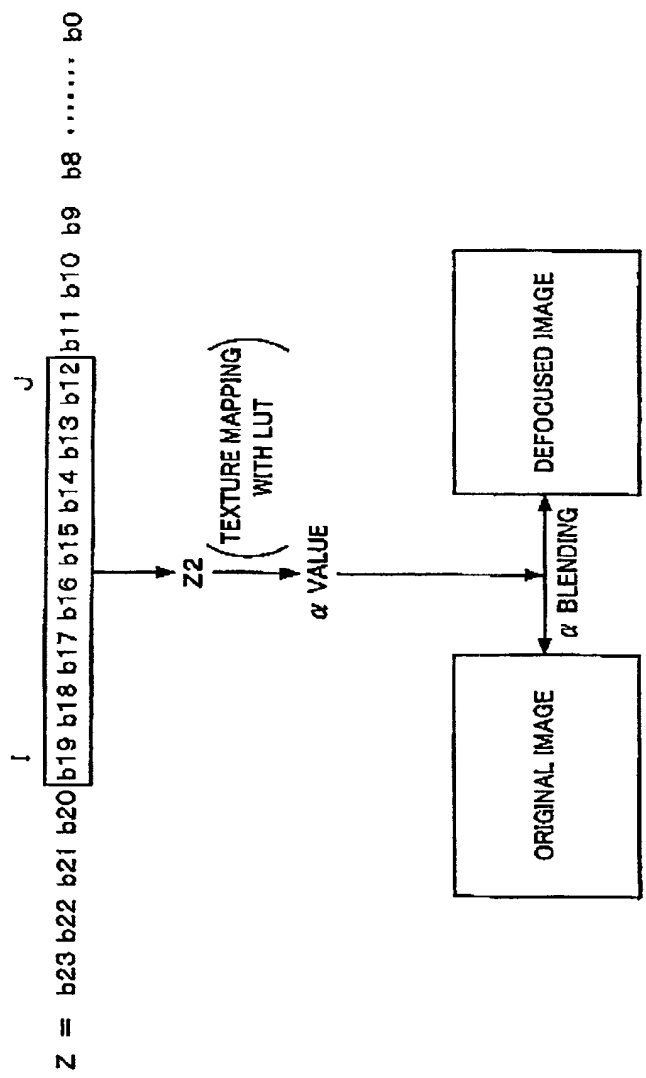
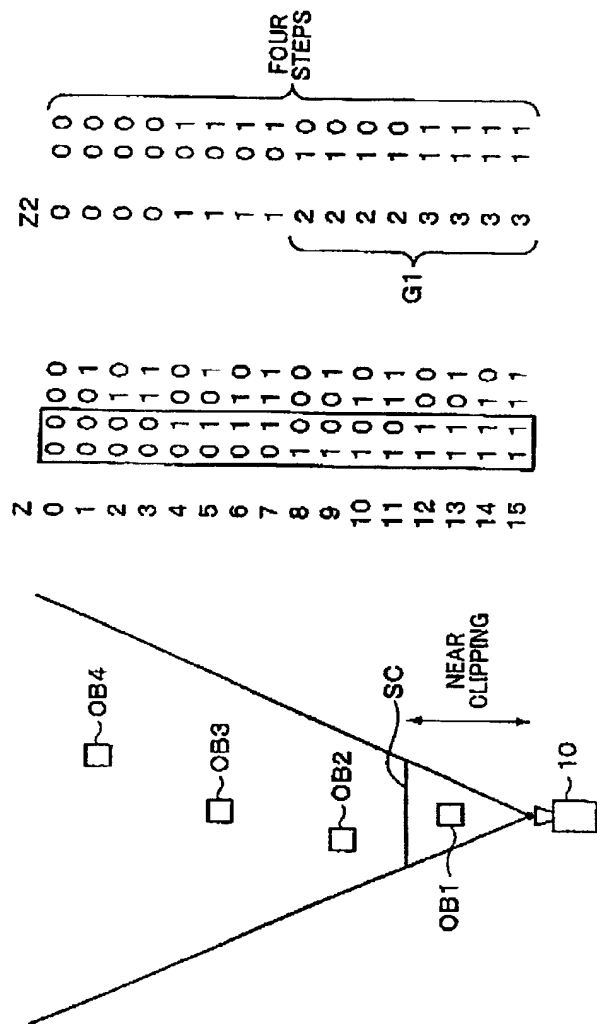


FIG. 20



TEXT-ESP-000

FIG. 21



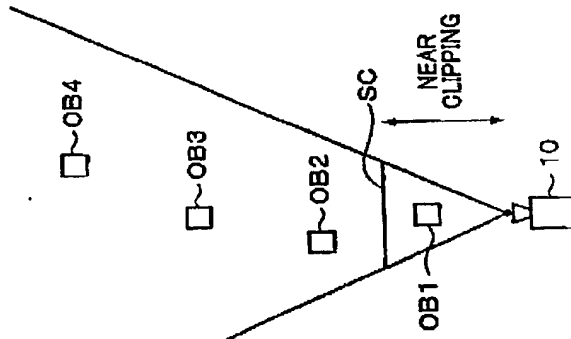
[illegible][illegible]

FIG. 22

FIG. 23

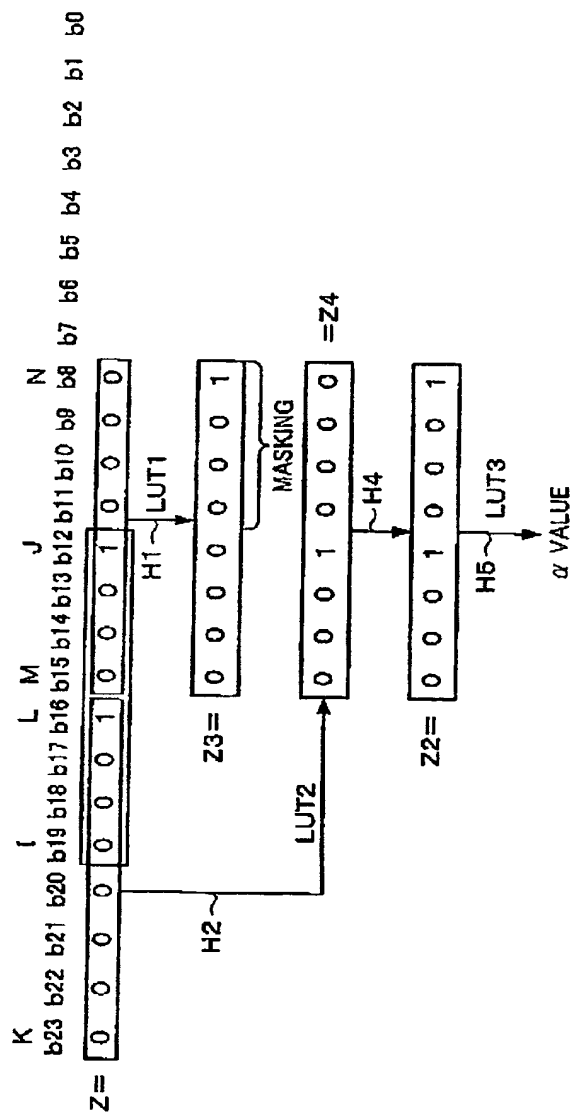


TABLE 1

FIG. 24

LUT1 (BITS 15 TO 8)

INDEX	OUT (ANY ONE OF R, G, B AND α)
0x00 (00000000)	0x00 (00000000)
...	...
0x0F (00001111)	0x00 (00000000)
0x10 (00010000)	0x01 (00000001)
...	...
0x1F (00011111)	0x01 (00000001)
0x20 (00100000)	0x02 (00000010)
...	...
0x2F (00101111)	0x02 (00000010)
0x30 (00110000)	0x03 (00000011)
...	...
0xE0 (11100000)	0x0E (00001110)
...	...
0xEF (11101111)	0x0E (00001110)
0xF0 (11110000)	0x0F (00001111)
0xF1 (11110001)	0x0F (00001111)
0xF2 (11110010)	0x0F (00001111)
...	...
0xFF (11111111)	0x0F (00001111)

FIG. 25

LUT2 (BITS 23 TO 16)

INDEX	OUT (ANY ONE OF R, G, B AND α)
0x00 (00000000)	0x00 (00000000)
0x01 (00000001)	0x10 (00010000)
0x02 (00000010)	0x20 (00100000)
0x03 (00000011)	0x30 (00110000)
0x04 (00000100)	0x40 (01000000)
...	...
0x0E (00001110)	0xE0 (11100000)
0x0F (00001111)	0xF0 (11110000)
0x10 (00010000)	0xF0 (11110000)
0x11 (00010001)	0xF0 (11110000)
...	...
0xFF (11111111)	0xF0 (11110000)

Q1

CLAMPING

TABLE 1000

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FIG. 26A

LUT3

INDEX	OUT(α)
0x00 (00000000)	0xFF (11111111)
0x01 (00000001)	0xFE (11111110)
0x02 (00000010)	0xFB (11111011)
...	...
0x7F (01111111)	0x00 (00000000)
0x80 (10000000)	0x00 (00000000)
0x81 (10000001)	0x00 (00000000)
...	...
0xFE (11111110)	0xFE (11111110)
0xFF (11111111)	0xFF (11111111)

FIG. 26B

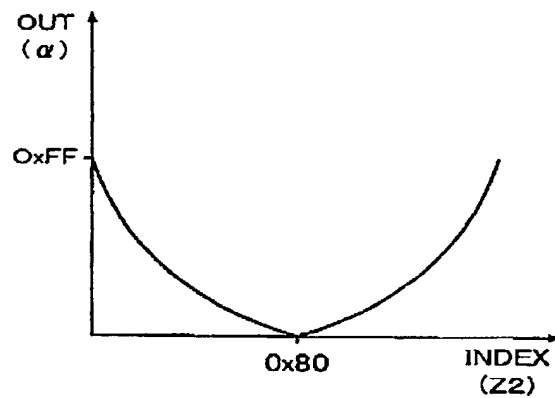


FIG. 27

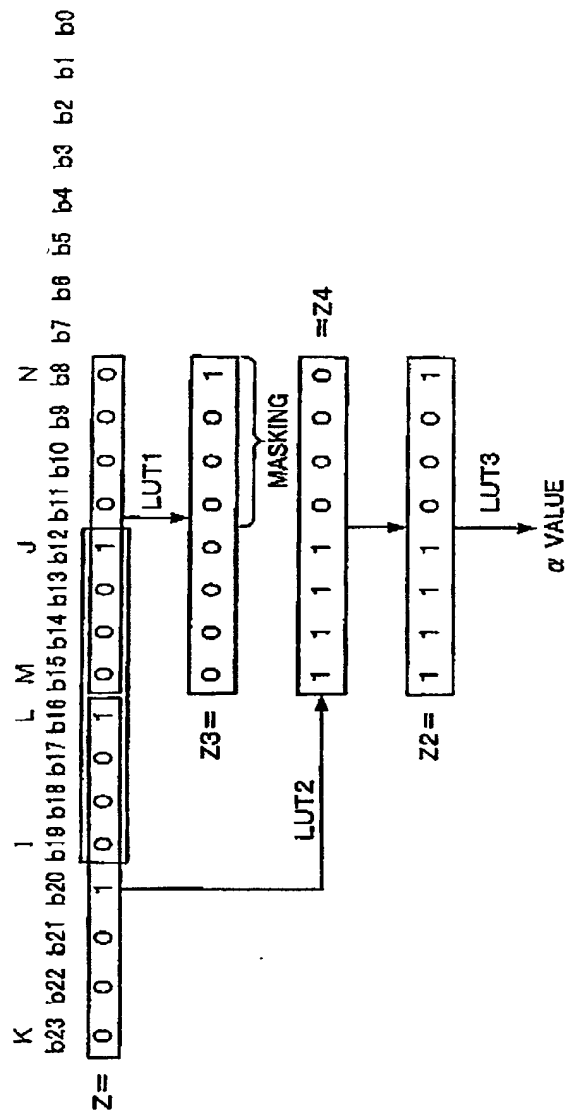


FIG. 28

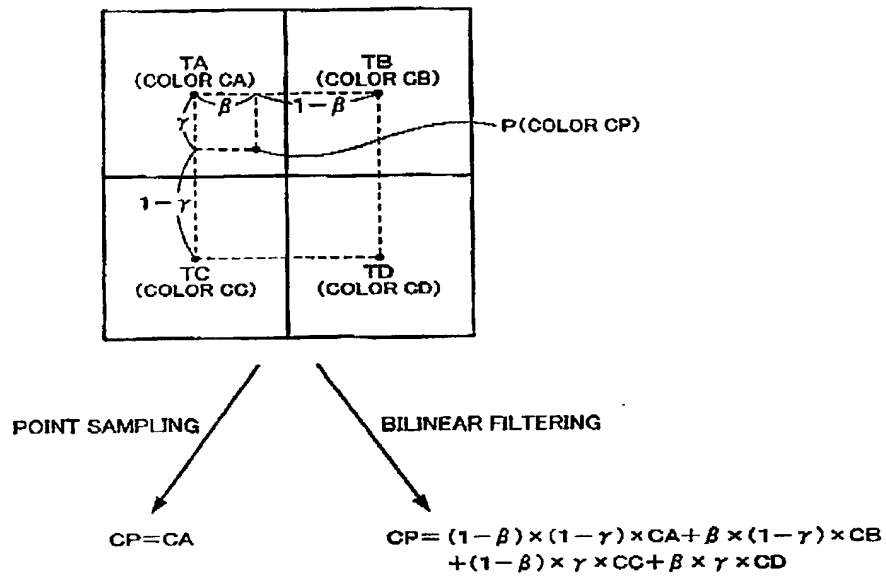


FIG. 29

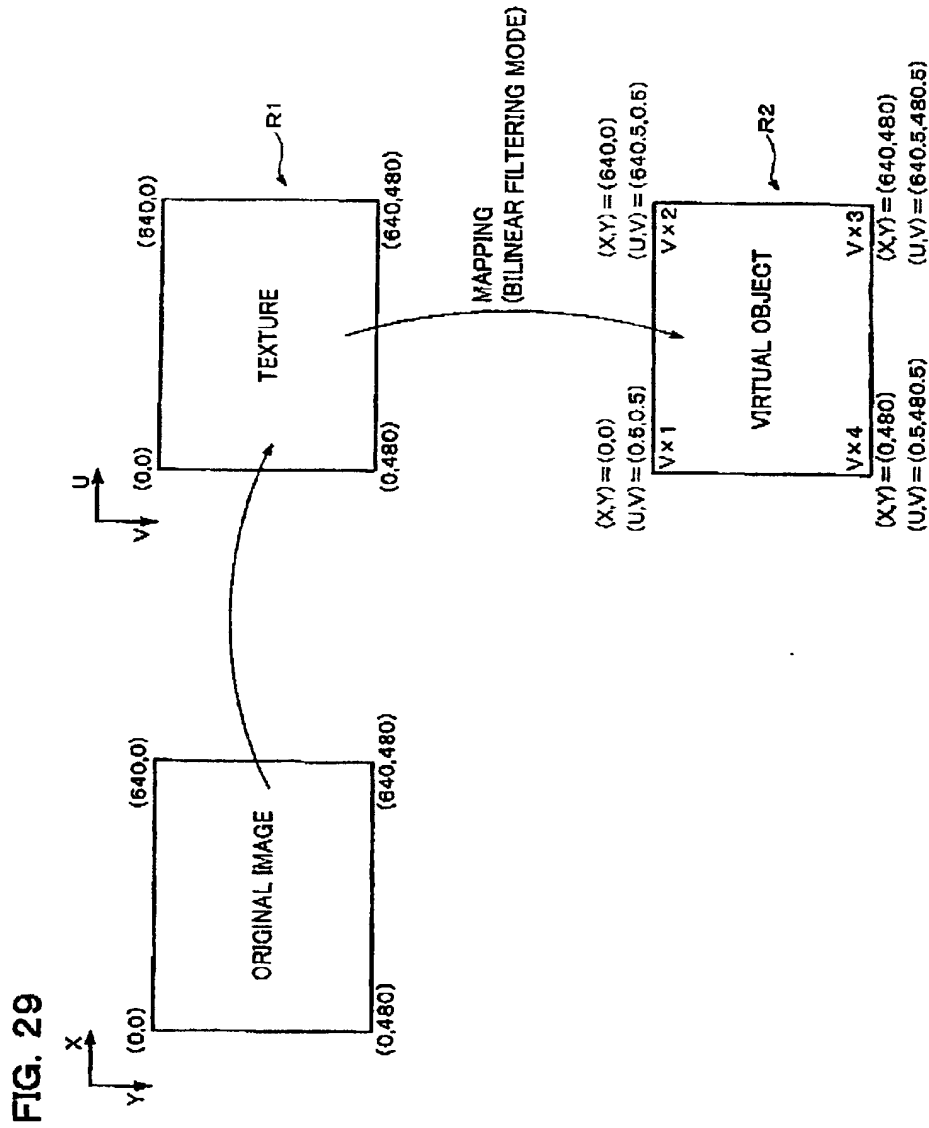
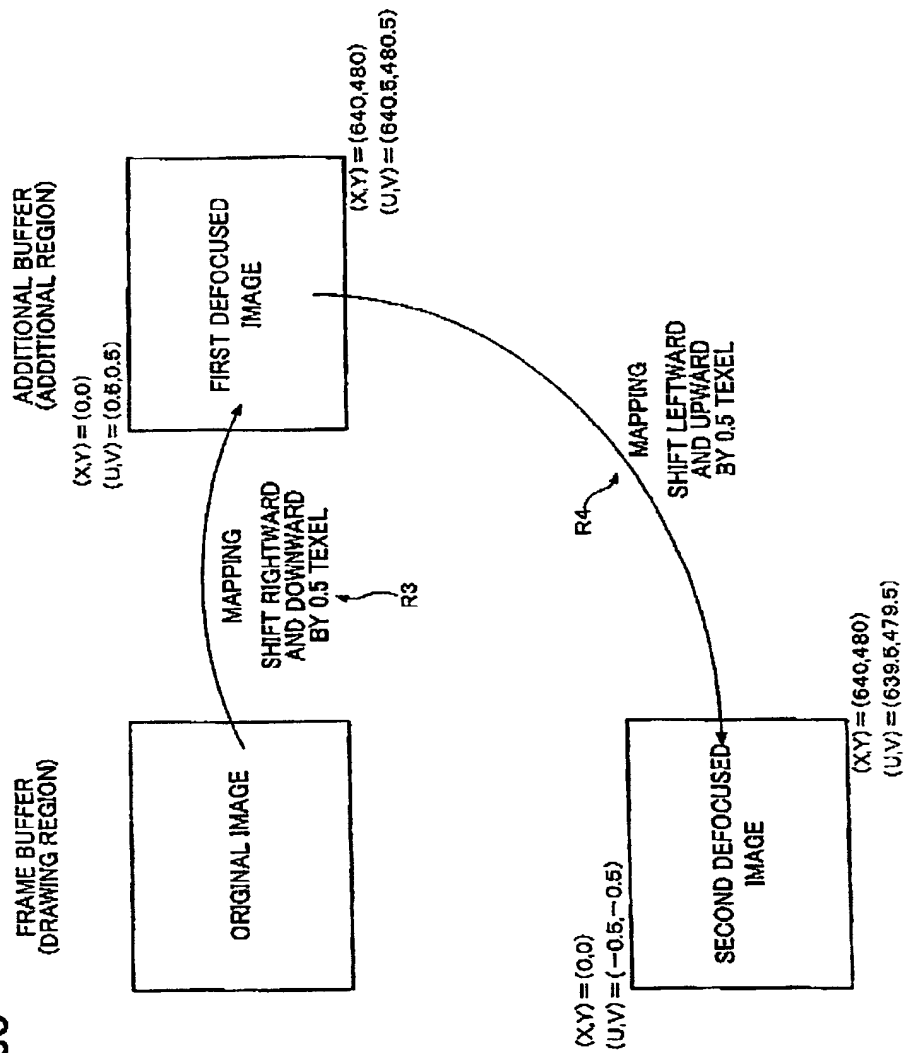
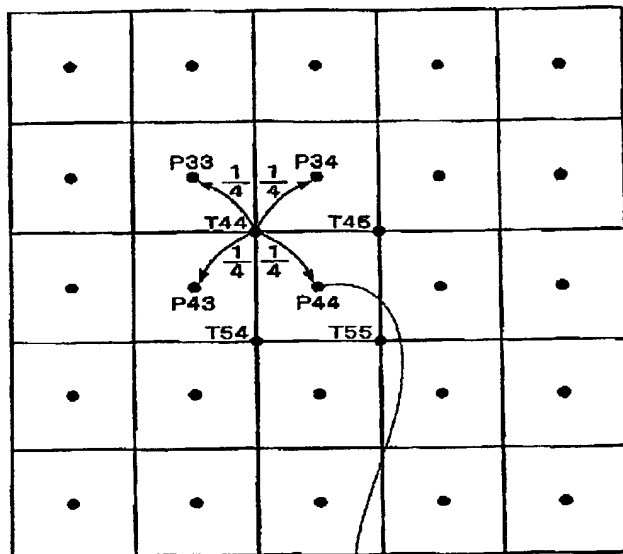


FIG. 30



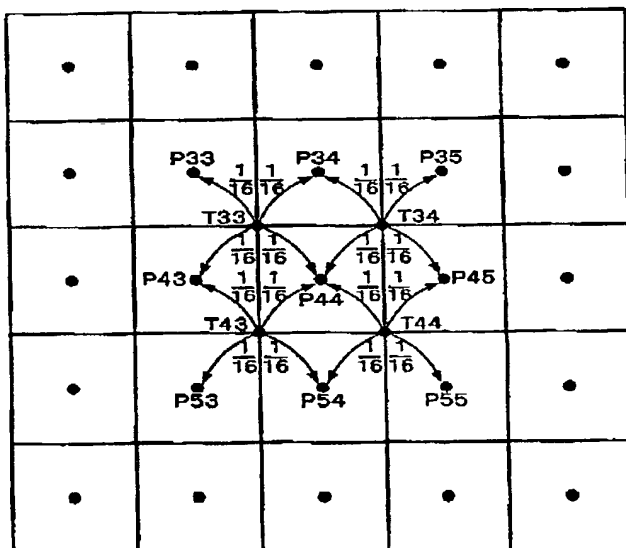
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FIG. 31A



$$CP44 = (C44 + C45 + C54 + C55) / 4$$

FIG. 31B



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FIG. 32A

	$\frac{1}{16}$	$\frac{2}{16}$	$\frac{1}{16}$	
	$\frac{2}{16}$	$\frac{4}{16}$	$\frac{2}{16}$	
	$\frac{1}{16}$	$\frac{2}{16}$	$\frac{1}{16}$	

FIG. 32B

$\frac{1}{256}$	$\frac{4}{256}$	$\frac{6}{256}$	$\frac{4}{256}$	$\frac{1}{256}$
$\frac{4}{256}$	$\frac{16}{256}$	$\frac{24}{256}$	$\frac{16}{256}$	$\frac{4}{256}$
$\frac{6}{256}$	$\frac{24}{256}$	$\frac{36}{256}$	$\frac{24}{256}$	$\frac{6}{256}$
$\frac{4}{256}$	$\frac{16}{256}$	$\frac{24}{256}$	$\frac{16}{256}$	$\frac{4}{256}$
$\frac{1}{256}$	$\frac{4}{256}$	$\frac{6}{256}$	$\frac{4}{256}$	$\frac{1}{256}$

FIG. 33

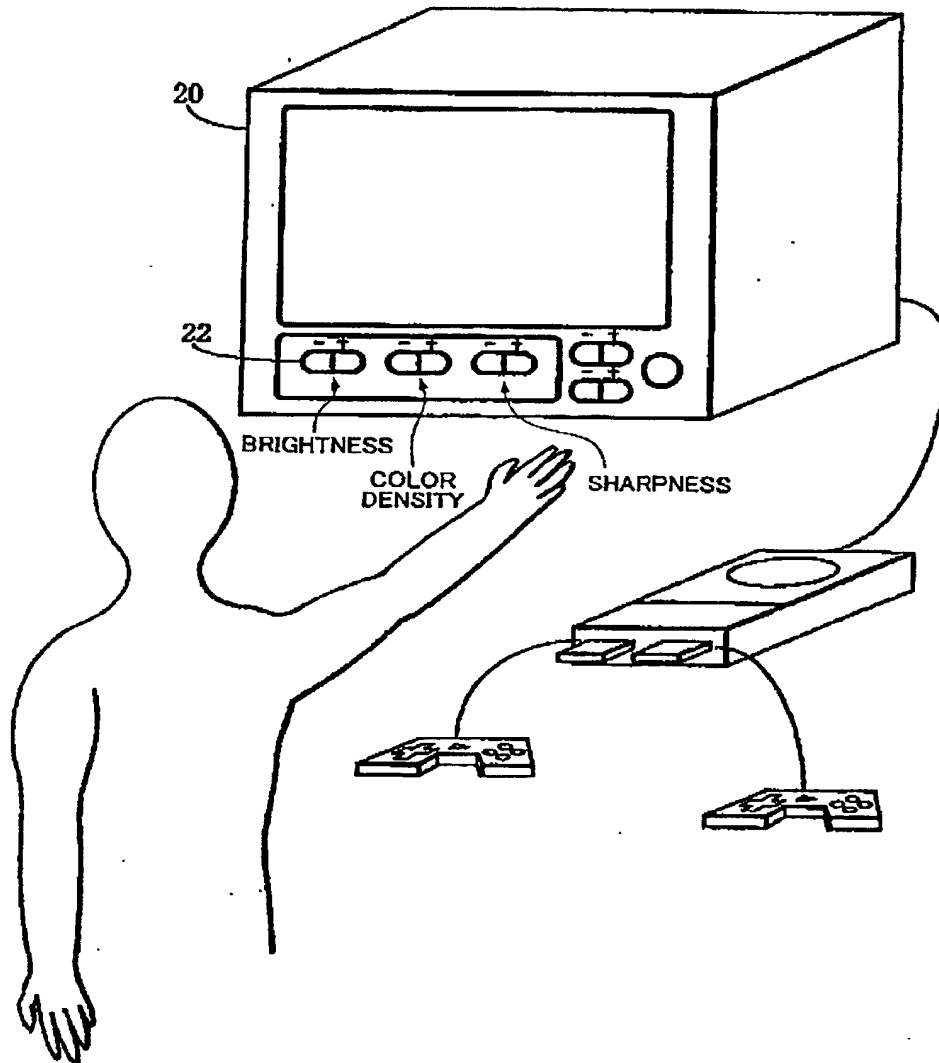


FIG. 34

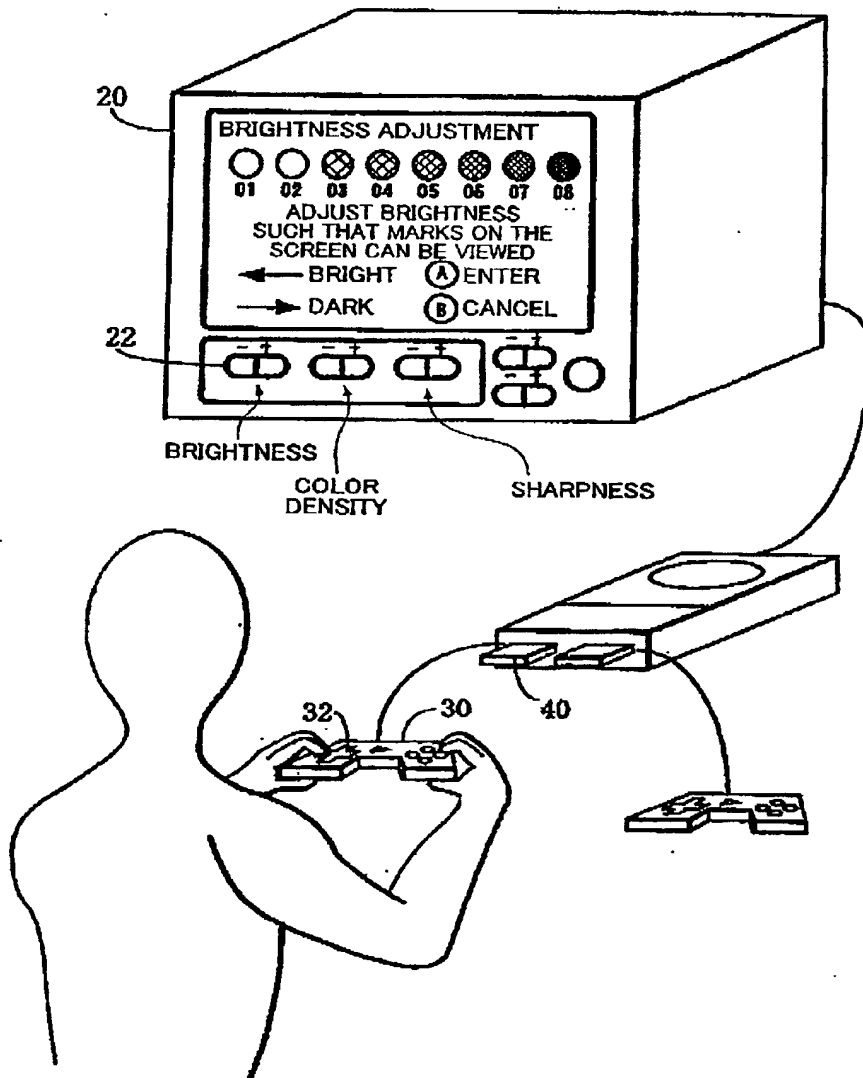
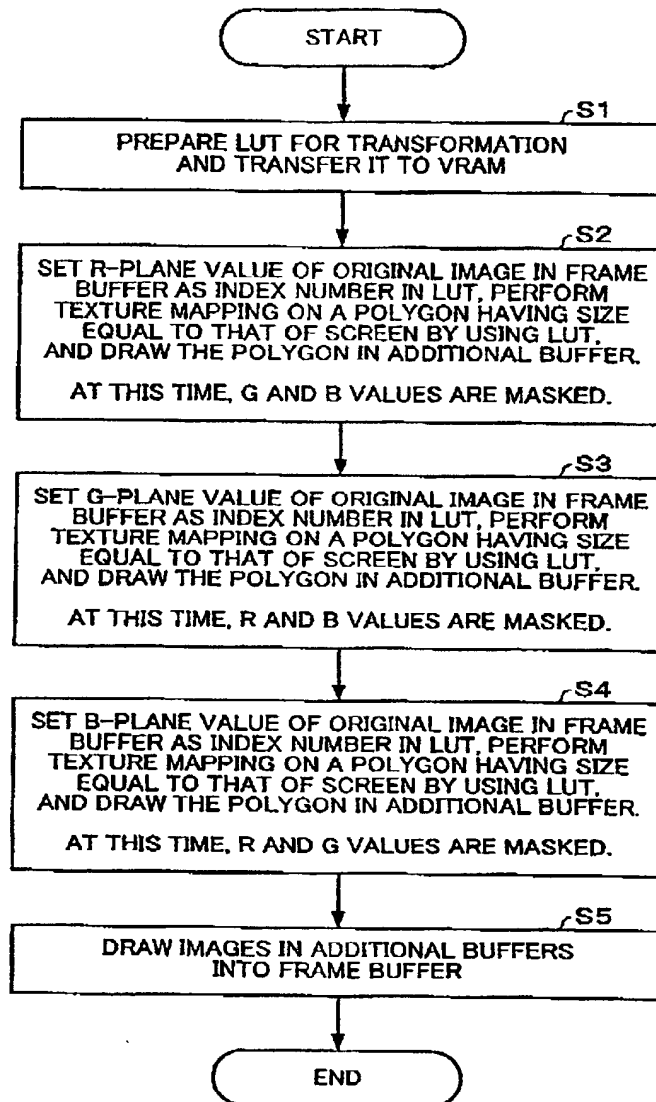
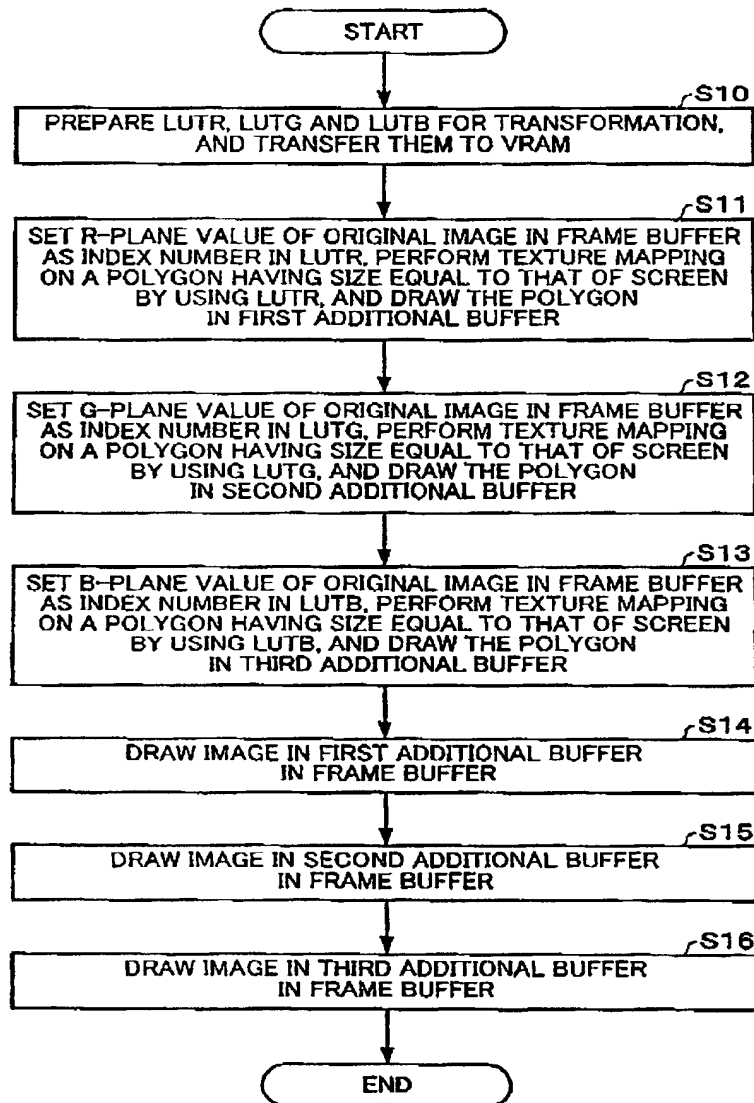


FIG. 35



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FIG. 36



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FIG. 37

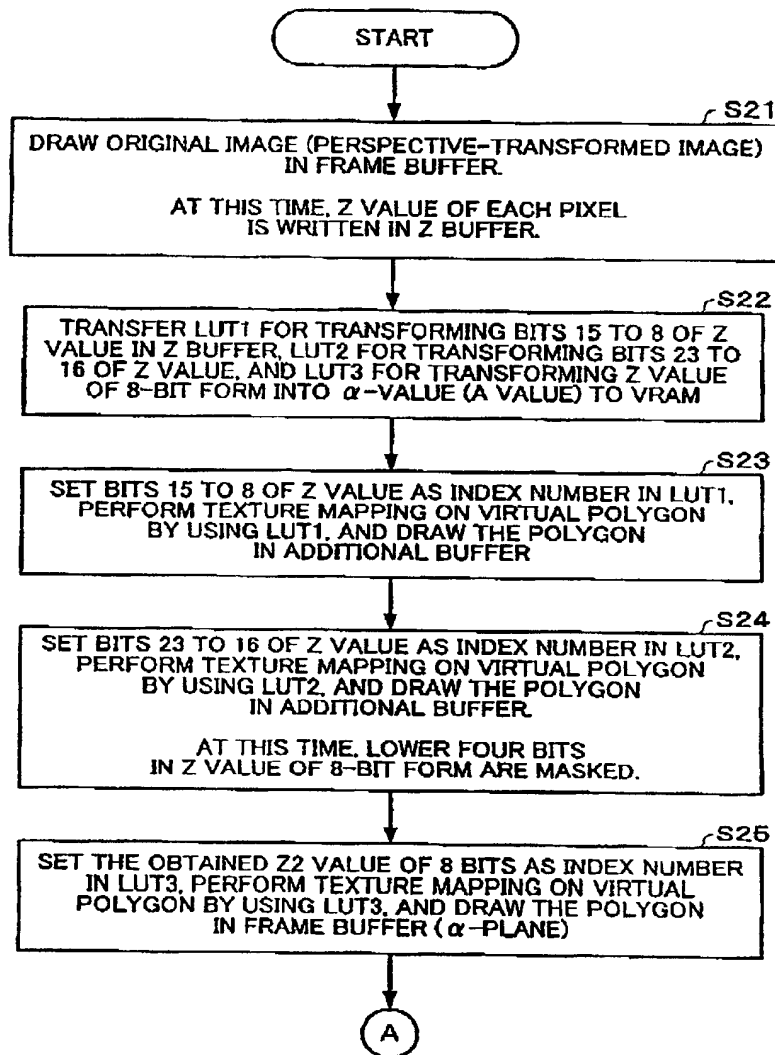


FIG. 37

FIG. 38

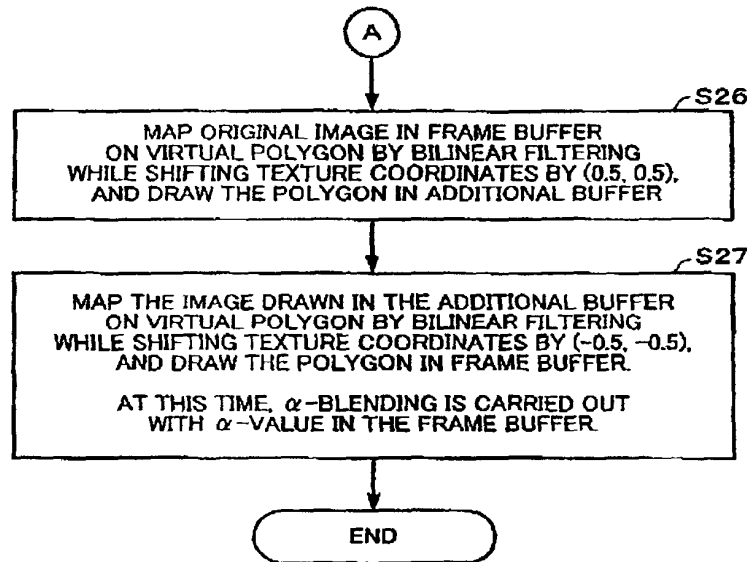


FIG. 39

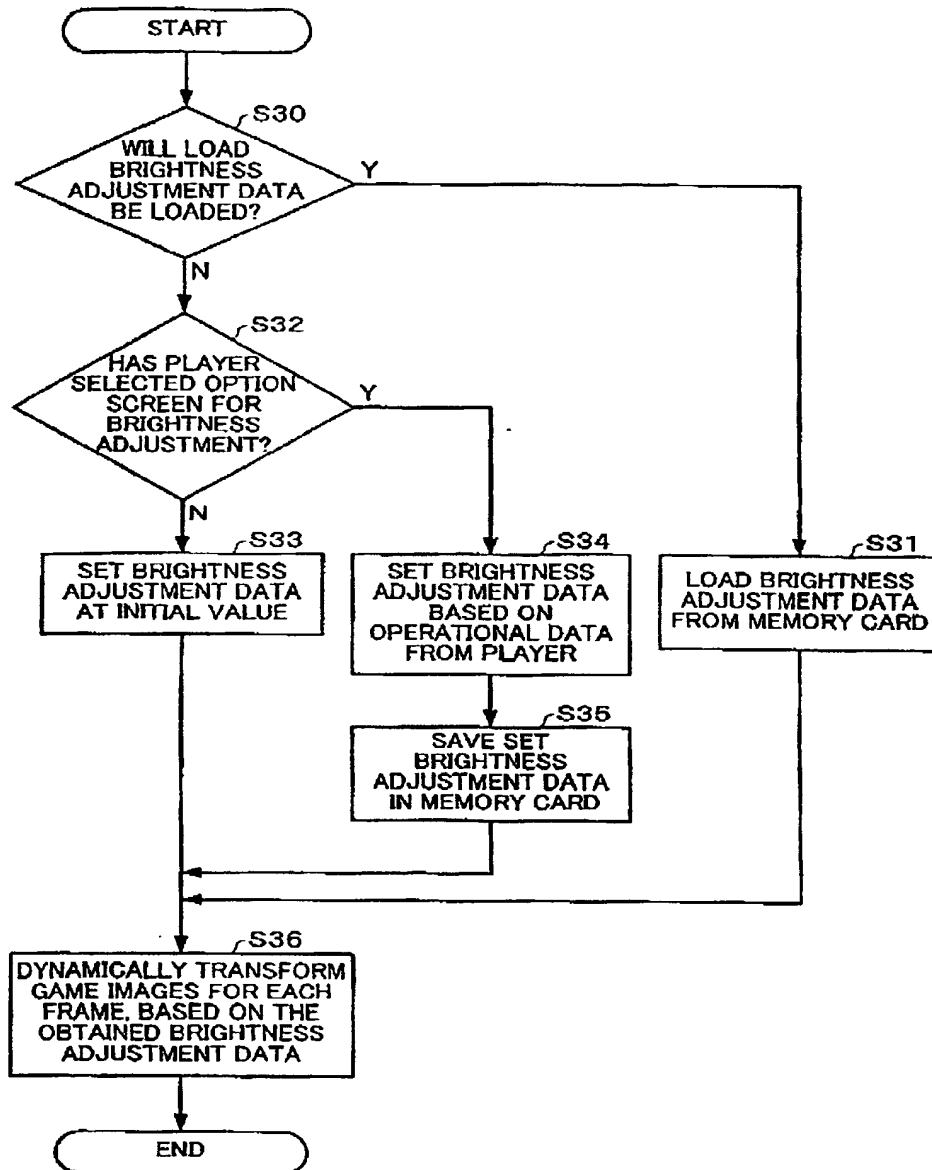
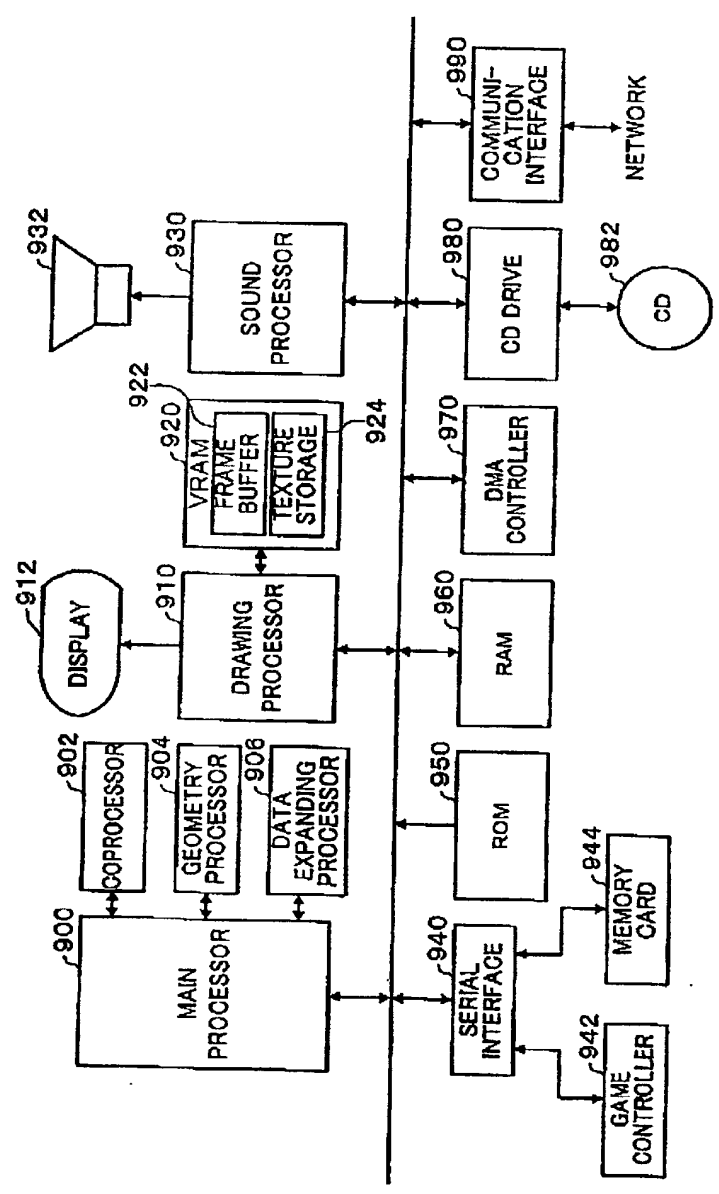


FIG. 40



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FIG. 41A

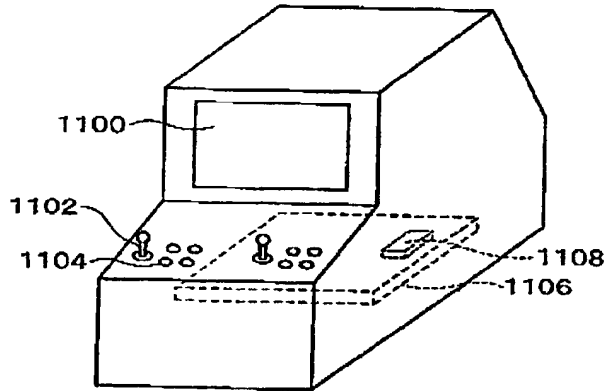


FIG. 41B

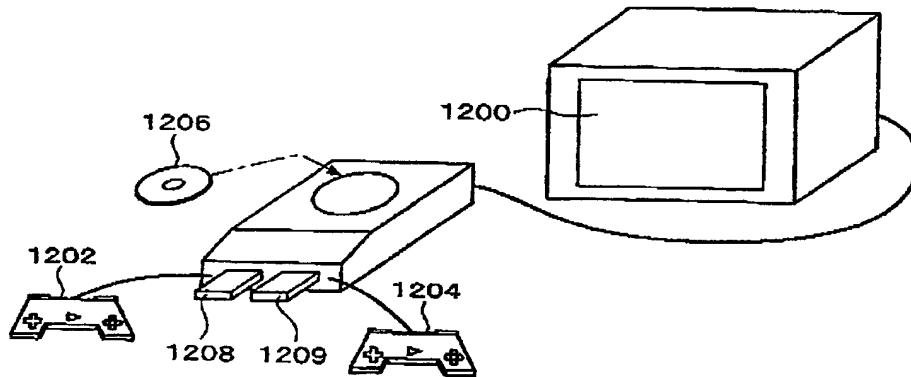


FIG. 41C

